

RP300

UHF RFID Mobile Reader



Quick Start Guide

V1.4

► Package

Please make sure the following items are included in the RP300 package. If any item is missing or damaged, contact your Unitech representative.

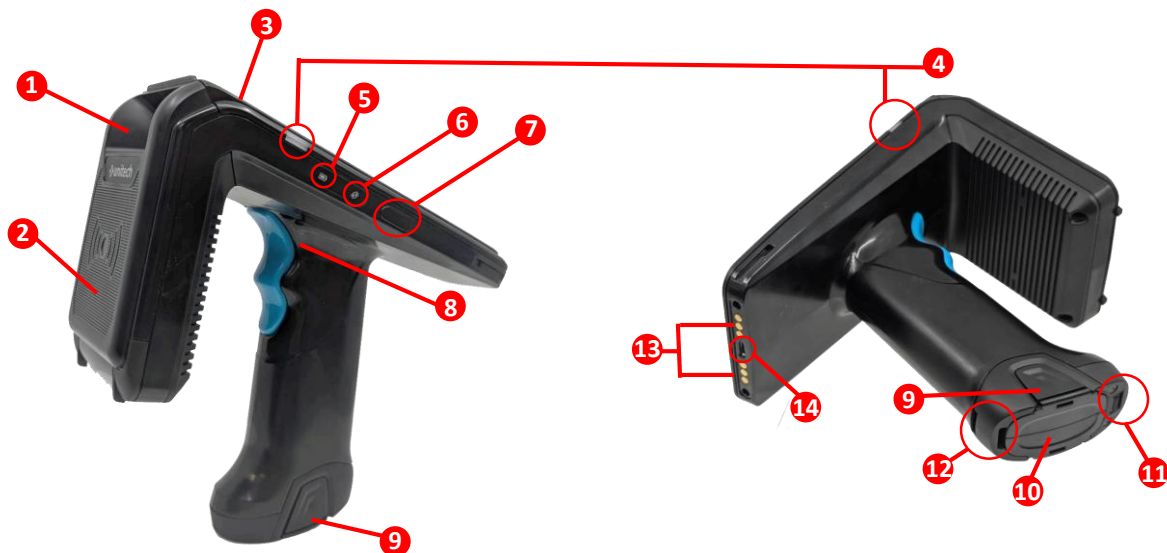
► The Package Contents

- RP300
- Battery
- Wrist Lanyard
- RFID Tag x 5
- RFID Device QR Code Card

► Optional Accessories

- RP300 Gun Battery (7000 mAh)
- USB-C Adapter (45W)
- 1-Slot Charging Cradle
- 3-Pin Power Cord (EU / US / UK)
- Holders for EA660
- Holders for EA530 Series

► Product View



1. Scan Window
2. Antenna Area
3. Top Cover
4. Status LED
5. Power LED

6. Communication LED
7. Communication Key (BT SPP / BT HID / USB)
8. Trigger Key (RFID / Barcode)
9. Battery Release Button

10. Battery
11. Battery Lock
12. Wrist Lanyard Attachment Point
13. Pogo Pins
14. USB-C Port

► Install the Battery

Align the battery with the battery slot, then press it down until you hear a **CLICK** sound.



► Remove the Battery

Slide and hold the battery lock in the unlocked position. Press both battery release buttons, then pull the battery out.



► How to Attach the Wrist Lanyard

1. Insert the cord loop of the wrist lanyard through the wrist lanyard attachment point on the bottom of the RP300.



2. Pass the other end of the wrist lanyard through the cord loop, then pull it tight to secure.



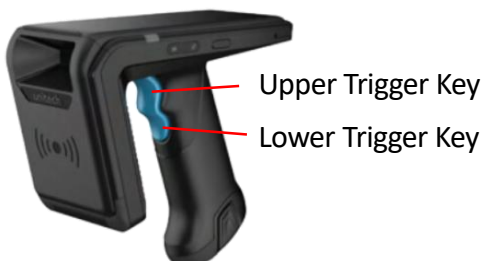
Note:

If you need to attach the wrist lanyard, it is recommended to do so before installing the battery.

► Getting Started

The RP300 can be used as a standalone device or connected to compatible Android and iOS devices.

Standalone Use (For Windows Usage)	Android Compatibility (Requires optional holder accessory)	iOS Compatibility (Requires optional holder accessory)
	 Supported Devices: EA660 & EA530 Series	 Supported Devices: iOS Devices with USB-C



	RFID + Barcode Model	RFID-Only Model
Upper Trigger Key	Scan Barcodes	Read RFID tags only
Lower Trigger Key	Read RFID tags	
Both Triggers	Scan barcodes or read RFID tags based on the target	

Note: Trigger functions can be configured in TagAccess.

► Installing and Removing the EA660

1. Remove the Top Cover.



2. Align the holder's pogo pins with the center pogo pin slot on the RP300, then press the holder firmly into place.



Mount the Holder



3. Tighten the four corner screws using a screwdriver.



4. Slide the EA660 into the holder, aligning its USB-C port with the holder's USB-C connector.

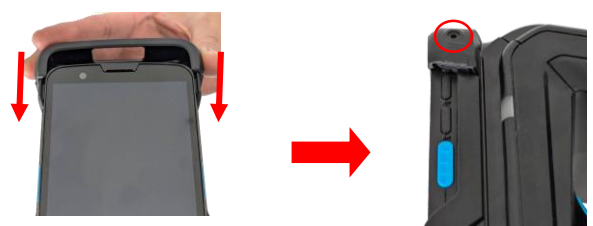


Remove the EA660

Slide the EA660 upward to remove it from the holder.



5. Align both ends of the bumper with the top of the holder and press the bumper straight into place. Tighten the two side screws using a screwdriver.



Note: To remove the bumper, hold both ends firmly and pull it out parallel to the holder.



► Installing and Removing the EA530 Series

1. Follow Step 1 on the previous page to remove the top cover.
2. Align the holder's pogo pins with the center pogo pin slot on the RP300, then press the holder firmly into place.



Mount the Holder



3. Tighten the four corner screws using a screwdriver.



4. Align the EA530 with the holder, then press it down until it locks into place.



Note: Remove the black film from the EA530 before installing it on the holder.



Remove the EA530 Series

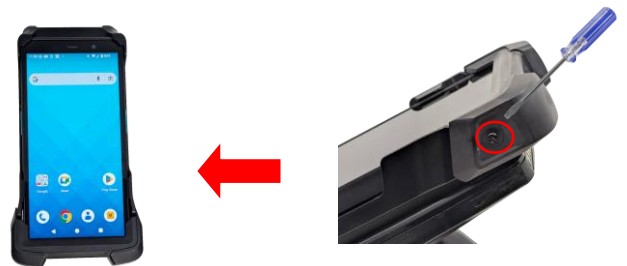
Lift the EA530 from the bottom edge, then remove it from the holder.



5. Hold both ends of the bottom bumper and align it with the holder. Keeping it parallel, press it into place, then tighten the screws on both sides with a screwdriver.



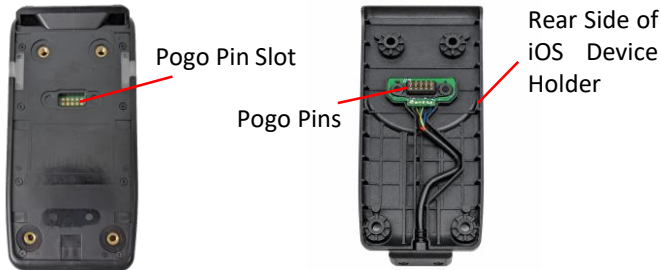
Note: To remove the bumper, hold both ends firmly and pull it out parallel to the holder.



Note: After mounting the EA530, it immediately connects to the RP300 and is ready for use. The bottom bumper can also be installed to help keep the EA530 securely attached in the event of a drop.

► Installing and Removing the iOS Device with OtterBox Case

1. Follow Step 1 on the previous page to remove the top cover.
2. Align the holder's pogo pins with the center pogo pin slot on the RP300, then press the holder firmly into place.



4. Slide the iOS device into the holder, aligning its USB-C port with the holder's USB-C connector.



Mount the Holder



Remove the iOS Device

Slide the iOS device upward to remove it from the holder.



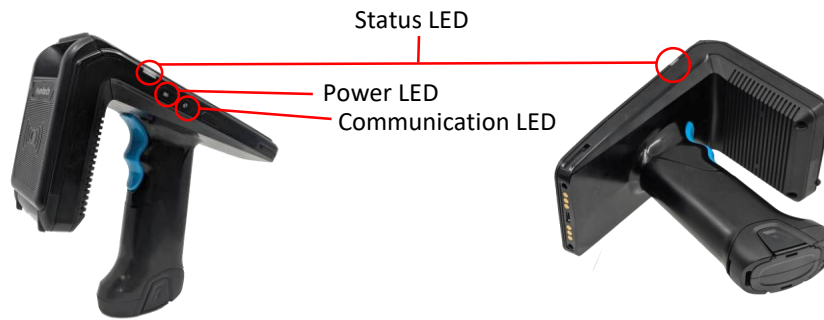
iPhone with OtterBox Case



3. Tighten the four corner screws using a screwdriver.



► LED and Beeper Indicators



Status LED

Status	LED	Beeper	Description
Successful Barcode Decode / RFID Read	Green	One Short Beep	Successful decode/read
Barcode / RFID Operation Error	Red for 2 Sec.	High-Low-High-Low-High	When any of the following occurs: • Battery Level Below 5% • Internal Buffer Full • Data Transmission Failure

Power LED

Status	LED	Beeper	Description
Battery Level (No external power supply connected)	Green: Solid	-	Battery Level above 50%
	Green: 1 Blink Every 2 Sec.	-	Battery Level above 20%
	Red: Solid	-	Battery Level 5%-20%
	-	One Beep	Battery Level Below 5% (Enter Low Power Mode)
	-	-	Suspend or Low Power Mode
Charging (External power supply connected)	Green: 1 Blink Every Sec.	One Beep	Battery Charging
	Red: 1 Blink Every Sec.	High-Low-High-Low-High	Battery Charging Error
	Green: Solid	One Beep	Battery Fully Charged (100%)

Communication LED

Status	LED	Beeper	Description
BT SPP Mode	Blue: 1 Blink Every Sec.	-	Waiting for BT SPP Connection
	Blue: Solid	• Connection: Ascending Triplet • Disconnection: Descending Triplet	BT SPP Connected
BT HID Mode	Blue: 2 Quick Blinks Every 2 Sec.	-	Waiting for BT HID Connection
	Blue: Solid	• Connection: Ascending Triplet • Disconnection: Descending Triplet	BT HID Connected
USB Mode	Red: 1 Blink Every Sec.	-	Waiting for USB Connection
	Red: Solid	• Connection: Ascending Triplet • Disconnection: Descending Triplet	USB Connected
Firmware Update	Blue & Red: Blink Alternately at High Speed	• Success: One Long Beep • Fail: High-Low-High-Low-High	Firmware Update in Progress

Communication Key — Switching Modes:

- Press and hold the key for 2 seconds to switch between BT SPP, BT HID, and USB modes
- When the mode changes: 1 long beep & Communication LED changes accordingly (see the table above)

Note: When no host device is connected, the RP300 automatically enters Batch Mode and stores data locally. When an Android or iOS host is connected, Batch Mode is disabled and the data is transferred to the host device.

► How to Connect to TagAccess



Download and install **TagAccess** from the RP300 product page.

<https://www.ute.com/en/products/detail/RP300>

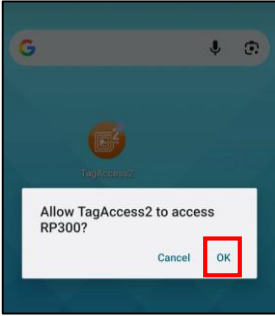
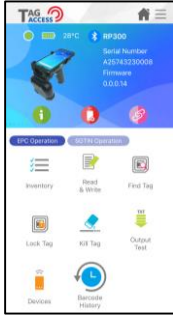
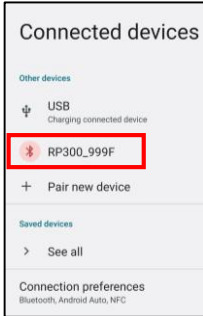


Red LED: USB Mode

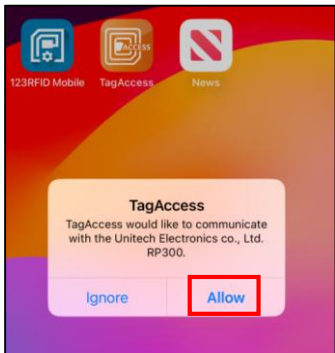
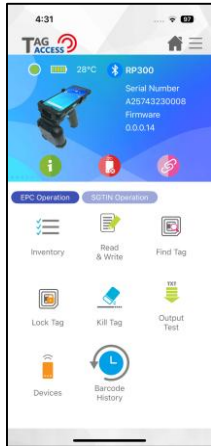


Blue LED: BT SPP Mode

For Android Device

USB Mode RP300 Communication LED blinks red – Waiting for USB Connection	BT SPP Mode RP300 Communication LED blinks blue – Waiting for BT SPP Connection
Connect the EA660/EA530 Series to the RP300, then tap “OK” when the pop-up appears and open the app to start scanning.  	Turn on Bluetooth on the EA660/EA530 Series and pair with the RP300. Open the app and activate the RP300 to start scanning.    Note: When connected through the holder's USB or pogo pins, TagAccess automatically switches to USB connection mode.

For iOS Device

USB Mode RP300 Communication LED blinks red – Waiting for USB Connection	BT SPP Mode RP300 Communication LED blinks blue – Waiting for BT SPP Connection
Connect your iPhone to the RP300, then tap “Allow” when the pop-up appears and open the app to start scanning.  	Turn on Bluetooth on your iPhone and connect to the RP300, then tap “Allow” once connected and open the app to start scanning.   Note: When connected through the holder's USB or pogo pins, TagAccess automatically switches to USB connection mode.

► Charging the Devices

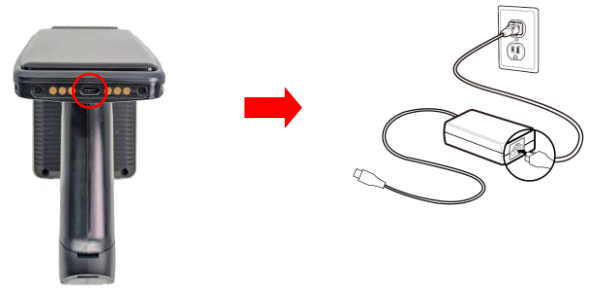
PD Fast Charging and Device Charging Compatibility

We recommend using the original Unitech adapter. If you use a different adapter, please follow the guidelines below before charging:

- a. Use a USB Power Delivery (USB PD) adapter
- b. A 45 W adapter is recommended

1. Insert one end of the USB-C cable into the USB-C port on the RP300, then plug the other end into a power outlet.
2. When an iOS device is mounted, charging is not supported; Android devices can be charged simultaneously.
3. The RP300 supports PD charging and can be fully charged within 2 hours, depending on the adapter used.

Before using the RP300, follow the illustrations below for setup instructions.



CAUTION!

To ensure proper operation, keep all connectors free from contaminants such as dust, grease, mud, and water. Contamination may cause communication failure, short circuits, or overheating. If a connector is damaged, ensure it is fully repaired before using the unit to avoid a short circuit.

DO charge between 20% and 80% to protect your battery.

Avoid full discharges (0%) or continuous charging at 100% to reduce stress on the battery.

WARNING!

There is a risk of fire and burns if the battery is handled improperly.

DO NOT disassemble, crush, puncture, short external contacts, or dispose of the battery pack in fire or water. **DO NOT** attempt to open or service the battery. Dispose of used batteries according to local recycling guidelines in your area.

EU Importer: Unique Technology Europe B.V.
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